



BIOLOGY >> Biodiversity (Acellular Life/Variety of Life)

Q 1

When were bacteriophages discovered by Twort?

A

1915

B

1920

C

1910

D

1820

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Q 2

One of the functions of the Neuroglial cells is to protect and support which of the following?

A

Nephrons

B

Myoid cells

C

Neurons

D

none of these

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Q 3

The chief cells at the base of the gastric glands secrete the zymogen which is called?

A

trypsinogen

B

pepsin

C

trypsin

D

pepsinogen

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Q 4

Shape of the maturing phase of tge golgi apparatus is?

A

biconcave

B

convex

C

spherical

D

concave

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Q 5

Developing seeds are rich source of which of the following?

A

auxins

B

gibberellins

C

cytokinins

D

all of these

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Q 6

Shape of the maturing phase of tge golgi apparatus is?

A

biconcave

B

convex

C

spherical

D

concave

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Q 7

What protein, present in sarcomeres, is responsible for the passive elasticity of muscle?

A

collagen

B

myosin

C

titin

D

actin and myosin

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Q 8

Lymph nodes may be located in the human body in the tissues of the:

A

stomach

B

thyroid gland

C

brain

D

groin and neck

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Q 9

Active form of an enzyme:

A

Coenzyme

B

Apoenzyme

C

Holoenzyme

D

Proenzyme

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Q 10

Sycon is an example of:

A

Platyhelminthes

B

Annelida

C

Protozoa

D

Porifera

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Q 11 Aschelminthes is also known as which of the following?

A Protozoans

B Eumetazoa

C Protocist ancestors

D Nematodes

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Q 12

Air contains what percentage of carbon dioxide?

A

0.02-0.03

B

0.03-0.04

C

0.04-0.05

D

0.05-0.06

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Q 13

A condition with abnormal amount of fats is called:

A

anorexia

B

botulism

C

piles

D

obesity

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Q 14

The brain is protected by:

A

sacrum

B

Cranium

C

humerus

D

scapula

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Q 15

Which of the following molecules is reduced?

A

NAD⁺

B

FAD

C

O₂

D

NADPH

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Q 16

The ordered list of loci known for a particular genome is called?

A

gene map

B

loci

C

alleles

D

chromosomes

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Q 17

The bond formed when two or more atoms complete their electron shells by sharing electrons is called?

A

Ionic bond

B

Hydrogen bond

C

covalent bond

D

Both a and b

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Q 18 Which statement is true about gastropods?

A Body is bilaterally symmetrical.

B Both aquatic and land species breathe through lungs.

C Triploblastic and acoelomates.

D All of the above.

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Q 19

In mammalian male, the reproductive and excretory system share the same:

A

vas deferens

B

ureter

C

urinary bladder

D

Urethra

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Q 20

The reaction will proceed faster if the activation energy is?

A

high

B

low

C

remains same

D

none of these

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Q 21

nervous system of nematodes consists of which of the following?

A

ventral nerve cord

B

dorsal nerve cord

C

lateral nerve cord

D

all of these

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Q 22

The most common cause of cancer-related deaths is

A

Prostate cancer

B

Kidney cancer

C

Lung cancer

D

Skin cancer

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Q 23

Which of the following carbohydrate is polymerized through 1,4 glycosidic linkages?

A

amylose

B

sucrose

C

maltose

D

lactose

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Q 24

Which statement about enzyme is incorrect?

A

Some of them consist solely of protein with no non protein part.

B

They catalyze a chemical reaction without being utilized.

C

They without their cofactor are called apoenzyme.

D

All enzymes are fibrous Proteins

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Q 25

Trachea is also termed as:

A

voice box

B

epiglottis

C

bronchi

D

windpipe

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Q 26

What is not the function of cerebrospinal fluid?

A

It cushions the brain

B

It protects the central nervous system

C

It increases pressure at the base of the brain.

D

It fills the subarachnoid space

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Q 27

The internal lining of the uterus wall is called:

A

Endometrium

B

Perimetrium

C

Corpus luteum

D

None of these

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Q 28

What type of protein is Fibrin?

A

Functional

B

Structural

C

enzymatic

D

all of these

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Q 29

Rapid growth at exponential rate occurs in which phase of bacterial growth?

A

lag

B

log

C

stationary

D

decline

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Q 30

The process that secretes insulin from the cell is called?

A

endocytosis

B

pinocytosis

C

phagocytosis

D

exocytosis

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Q 31

Neo-Darwinism has integrated discoveries and ideas from which of the following fields of study?

A

genetics

B

paleontology

C

taxonomy

D

all of these

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Q 32

A disease caused by the absence of a lysosomal enzyme responsible for lipid catabolism _____.

A

Tay-Sach's disease

B

Phenylketonuria

C

Klinefelter's syndrome

D

Down's syndrome

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Q 33

What cycle begins when newly formed phages enter the bacteria?

A

lysogenic cycle

B

lytic cycle

C

both

D

none

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Q 34

Who was the first to propose an objective definition of instincts in terms of animal behaviour?

A

wallace

B

lamark

C

lyell

D

darwin

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Q 35

Rhythmic opening and closing of the stroma is controlled by?

A

temperature

B

oxygen

C

transpiration

D

internal clock in guard cells

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Q 36

When was the bacteriophage phenomena rediscovered by D'Herelle?

A

1918

B

1917

C

1920

D

1990

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Q 37

Out of 31 pairs of spinal nerves, how many pairs of cervical nerves are there?

A

8

B

10

C

12

D

15

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Q 38

The best definition of natural selection is?

A

survival of the fittest

B

the most fit individuals adapt to their environment better than less fit individuals

C

those who eat better, are healthier, and live longer are the most fit within a population

D

preservation of traits that lead to increased survival and reproduction

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Q 39

The rate of an enzyme catalyzed reaction

A

Can be reduced by inhibitors

B

Is constant under condition

C

Cannot be measured

D

Decreases as substrate concentration increases

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Q 40

The number of RBCs at high altitude will:

A

Increase in size

B

Increase in number

C

Decrease in size

D

Decrease in number

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Q 41 If the genetic diversity is low the chance of extinction is?

A decreased

B increased

C remains same

D becomes zero

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Q 42

What gives the definite shape to a virion?

A

Envelope

B

Capsid

C

Capsomeres

D

prions

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Q 43

In nostrils, the substance which moistens and keep the incoming air warm is called

A

Bronchi

B

Mucous

C

pharynx duct

D

Glottis

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Q 44

The soluble part of the cytoplasm is known as?

A

cytosol

B

polysomes

C

cisternae

D

chitin

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Q 45

External genitalia of human male consist of a pair of testes which lie outside the body in the sac like?

A

bag

B

scrotum

C

pouch

D

all of these

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Q 46

Why cannot viruses replicate on their own?

A

too small

B

have no cell wall

C

lack metabolic machinery

D

all

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Q 47

Which characteristic is not of identical twins?

A

Produced by separation of two blastomeres

B

Produced asexually

C

Produced when embryo is at two cell stage

D

Have different genetic makeup

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Q 48

The gram positive bacteria appear which colour under gram staining?

A

purple

B

red

C

pink

D

blue

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Q 49

Who developed a theory of natural selection essentially identical to Darwin's?

A

Hardy-Weinberg

B

Malthus

C

Lamarck

D

Alfred Wallace

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Q 50

The phage components begin to assemble into mature phages only after the synthesis of?

A

structural protein

B

nucleic acid

C

both a and b

D

amino acids

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Q 51

The fibrous tissue that connects the tooth and socket is called the:

A

radio-ulnar joints

B

tibiofibular joints

C

Gomphosis

D

periodontal ligament

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Q 52

In the male reproductive tract, sperm cells follow a specific path. Which of the following do sperm cells enter after traveling through the epididymis?

A

Urethra

B

Seminiferous tubules

C

Ejaculatory duct

D

Vas deferens

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Q 53

Which of the following acts as the thermoregulator region of the brain?

A

cerebellum

B

cerebrum

C

hypothalamus

D

thalamus

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Q 54

Which group does not contain polyp?

A

Anthozoa

B

Hydrozoa

C

Scyphozoa

D

Calcarea

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Q 55

Abscissic acid promotes flowering in short day plants and inhibits in long day plants, which of the following is antagonistic to abscissic acid in terms of flowering?

A gibberellins

B cytokinins

C auxins

D ethene

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Q 56

Casparian strips are found in:

A

Epidermis

B

Endodermis

C

Cortex

D

Vascular bundle

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Q 57

Photosynthesis is process in which _____ compounds of carbon and hydrogen are reduced to carbohydrate like (glucose) using light energy.

A

Organic

B

Energy poor

C

energy rich

D

Reduced

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Q 58

The structures of the front flipper of a whale and the forearm of a wolf have similar bone structure and derive from a common ancestor. This is an example of which of the following?

A convergent evolution

B analogous structures

C homologous structures

D bottleneck affect

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Q 59

A human cell from the ovary has 22 chromosomes and an X chromosome. It is which of the following?

A

egg

B

sperm

C

somatic cell

D

gamete

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Q 60

The oldest mineral discovered so far is which of the following, which dates back to 4.4 billion years.

A

iron

B

zircon

C

diamond

D

cadmium

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Q 61

In prokaryotic cells, ribosomes are?

A

50S + 40S

B

60S + 40S

C

80 S

D

70 S

60

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Q 62

A chloroplast has 3 main components. They are the envelope, stroma and?

A

thylakoid

B

F1 particles

C

granum

D

centrosome

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Q 63

Where in a leaf mesophyll cell would you find DNA molecules?

A

Nucleus only

B

Nucleus & mitochondria only

C

Nucleus, mitochondria & chloroplasts only

D

Nucleus, mitochondria, chloroplasts & plasmids only

62

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Q 64

The canal system in sponges develops due to which of the following?

A

Porous walls

B

Gastrovascular system

C

Reproduction

D

Folding of inner walls

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Q 65

Fatty acids containing 18 C atoms and a single double bond are?

A

Saturated

B

Unsaturated

C

Oleic acid

D

Palmitic acid

64

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Q 66

For attachment, rabies virus binds to a

A

complement receptor

B

integrin ICAM-1

C

acetylcholin

D

epidermal growth factor

65

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Q 67

A researcher has designed a new type of inhibitor that binds at the active site of an enzyme. What type of inhibition does this molecule display?

A Uncompetitive inhibition

B Noncompetitive inhibition

C Competitive inhibition

D all of these

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Q 68

Which of the following is incorrect for ascent of sap?

A

water potential

B

cohesion tension

C

root pressure

D

imbibition

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Q 69

Centrifuge is used to purify

A

U

B

H

C

O

D

N

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Q 70

A wire of uniform area of cross-section A and length L is cut into two equal parts, the resistivity of each part is

A

Doubled

B

Half

C

Remains the same

D

increase three times

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Q 71

Consider a negative point charge is moving along a straight-line path directly toward a stationary positive point charge. Which aspect(s) of the electric force on the negative point charge will remain constant as it moves?

A

direction

B

magnitude

C

both direction and magnitude

D

neither direction and magnitude

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Q 72 Magnetic flux is _____ product

A scalar

B vector

C simple

D none of these

71

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Q 73

In a periodic wave, the distance between two consecutive crests is known as:

A

wave length

B

amplitude

C

displacement

D

none of these

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Q 74

The speed of sound in air is approximately:

A

1500 m/s

B

5000 m/s

C

330 m/s

D

50 m/s

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Q 75

Momentum of a photon is

A

0

B

 α

C

 hf/c

D

 mv

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Q 76

Which of the terms is related with thermodynamics

A

System

B

Surrounding

C

Boundary

D

All of these

75

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Q 77

What will be the product of beta decay of C-14?

A

C-14

B

N-14

C

O-14

D

Be-14

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Q 78

Speed is a

A

tensor

B

vector

C

scalar

D

None of these

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Q 79

When a force is parallel to the the direction of motion of body, the work done is

A

Zero

B

minimum

C

infinity

D

maximum

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Q 80

If magnetic field vector is $B = (i + 5j + 2k)$ and area vector is $(6i - 2j + 2k)$ then flux related to this is

A

10 Wb

B

15 Wb

C

20 Wb

D

0 Wb

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Q 81

Under what conditions of temperature and pressure does a real gas approximate to an ideal gas?

A

pressure = low temperature = low

B

pressure = low temperature = high

C

pressure = high temperature = low

D

pressure = high temperature = high

80

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Q 82

If the instantaneous current in a circuit is given by $I = A \sin (wt)$ ampere, the rms value of the current is:

A

2A

B

 $A/\sqrt{2}$

C

 $2\sqrt{2}A$

D

zero

81

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Q 83

When brakes of a car are applied, angular velocity of a flywheel reduces from 900 cycles/min to 720 cycle/min in 6sec. Angular retardation is

A $\pi \text{ rads}^{-2}$ B $9\pi \text{ rad/s}^2$ C $8\pi \text{ rad/s}^2$

D none of these

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Q 84

A 500 W electric heater is used to heat 1 kg of water without energy losses. The specific heat capacity of water is $4.2 \text{ kJ kg}^{-1} \text{ K}^{-1}$. What is the time taken to heat the water from 25°C to 75°C ?

A 7 seconds

B 42 seconds

C 7 minutes

D 420 minutes

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Q 85

An uncharged conductor has

A

electrons

B

protons

C

holes

D

all of these

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Q 86

Why x-rays are used in crystallography

A

to prevent interference

B

to prevent diffraction

C

to perform interference

D

to perform diffraction

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Q 87

The proton and antiproton collision will result

A

scattering

B

repulsion

C

attraction

D

annihilation

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Q 88

Time period of the wave is $\frac{1}{4}$ sec. How long does it take to pass 20 complete waves from a point?

A

5 sec

B

80 sec

C

 $\frac{1}{80}$ sec

D

 $\frac{1}{5}$ sec

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Q 89

When a spring is stretched, work done by stretching force is

A

positive

B

negative

C

zero

D

none of these

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Q 90

A charged particle enters in a strong magnetic field, its K.E

A

decreases

B

increases then decreases

C

becomes zero

D

remains constant

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Q 91

Which of the following rectifier uses wheatstone bridge to rectify signal

A

half wave

B

full wave

C

bridge

D

All of the above

90

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Q 92

People sitting in a moving bus experience a jerk when the bus stops. This is due to ____

A

inertia of motion

B

inertia of rest

C

inertia of turning

D

inertia of acceleration

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Q 93

If I , R and t are the current, resistance and time respectively, then according to Joule's law heat produced will be proportional to

A

$I^2 R t$

B

$I^2 R f$

C

$I^2 R^2 t$

D

$I^2 R^2 t^2$

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Q 94

Displacement and distance moved by an object in a straight path is

A

zero

B

same

C

different

D

not enough info

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Q 95

Inertia refers to tendency of object to

A

be at rest

B

be at constant motion

C

remain in the same state as previous

D

be at accelerating motion

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Q 96

The value of K depends upon

A

charges

B

system of units and medium

C

the distance between charges

D

Nature of medium

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Q 97

The linear momentum of a 3 MeV photon is :

A

 0.01 eV s m^{-1}

B

 0.01 eV s m^{-1}

C

 0.03 eV s m^{-1}

D

 0.04 eV s m^{-1}

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Q 98

The value of permittivity of material, other than air or space is:...

A

greater than unity

B

less than unity

C

equal to unity

D

zero

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Q 99

When brakes are applied to moving vehicle, the work done by the braking system is

A

positive

B

negative

C

zero

D

none of these

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Q 100

Wave speed per frequency is equivalent to

A

beats

B

Time period

C

wavelength

D

None of them

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Q 101

A line normal to the wavefront, showing the direction of propagation of light is called:

A

tangent

B

radius

C

wavelength

D

ray of light

100

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Q 102

A half wave rectifier is equivalent to

A

Clamper

B

Clipper

C

Clamper circuit with negative bias

D

Clamper circuit with positive bias

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Q 103

Angular displacement is zero when

A

 $\text{angle} = 0$

B

 $v=0$

C

 $r=0$

D

both b and c

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Q 104

Core of transformer is made up of

A

copper

B

Aluminum

C

iron

D

steel

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Q 105

A liquid has mass m and specific heat capacity c . The rate of change in temperature of liquid is R . What is the rate at which heat is transferred from the liquid.

A

 Rmc

B

 $R \div mc$

C

 $mc \div R$

D

 $Rm \div c$

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Q 106

The coulomb constant is defined as:...

A

$$1 / (4\pi\epsilon)$$

B

$$4 / (\pi\epsilon)$$

C

$$4\pi\epsilon$$

D

$$\pi / (4\epsilon)$$

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Q 107

The clouds are formed when water ____ heat

A

absorb

B

release

C

first absorb than release

D

first release than absorb

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Q 108

The atomic ratio between U-238 and U-234 in a sample is 1.8×10^4 . The half life of U-238 is 2.5×10^5 years. Find the half life of U-234.

A 2.5×10^9 yearsB 2.5×10^8 yearsC 4.5×10^9 years

D none of these

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Q 109

The charge and mass of photon is

A

0,0

B

1+,0

C

1-,0

D

1,1

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Q 110

A disc of radius 2 m and mass 100 kg roll on a horizontal surface, its center of mass has speed of 2 cm/s, how much work is needed to stop it

A 1 J

B 3 J

C 30 J

D 2 J

109

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Q 111

Initial pressure and volume are P and V respectively. First it expanded isothermally to $4V$ then compressed adiabatically to Volume V , the final pressure is

A $2P$ B $1P$ C $3P$ D $4P$

110

SKIPPED QUESTIONS 

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Q 112

In half wave rectification, the output DC voltage is obtained across the load for

- A the positive half cycle of input AC
- B the negative half cycle of input AC
- C the positive and negative half cycles of input AC
- D Either positive or negative half cycle of input AC

111

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Q 113

A stationary wave is formed in a pipe which is open at both ends. If length of pipe is L , then what is the maximum possible wavelength of the wave.

A

 $2L$

B

 $\frac{1}{2}L$

C

 L

D

 $3L$

112

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Q 114

A 220 V main supply is connected to a resistance of 100 k ohms. The effective current is

A

2.2 mA

B

$2.2/\sqrt{2}$ mA

C

$2.2\sqrt{2}$ mA

D

none of the above

113

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Q 115

When white light is passed through cool gases the spectra we observed is called

A

Line spectra

B

continuous spectra

C

absorption line spectra

D

emission line spectra

114

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Q 116

100 W heater is switched on for 5 minutes to melt ice. What is the mass of ice that melts at 0C. Specific latent heat of fusion of ice is 334 J/g.

A

90 g

B

90 kg

C

1.5 g

D

1.5 kg

115

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Q 117

A sound wave has a wavelength of 0.20 m. What is the phase difference between two points along the wave which are 0.65 m apart?

A

0 deg

B

45 deg

C

90 deg

D

180 deg

116

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Q 118

A particle carrying a charge $3e$, accelerates through a potential difference of $2V$. The energy acquired by it is:....

A $1.6 \times 10^{-19} \text{ J}$

B $9.6 \times 10^{-19} \text{ J}$

C $9.6 \times 10^{-18} \text{ J}$

D $1.6 \times 10^{-18} \text{ J}$

117

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Q 119

If displacement-time graph is a curve, which of the following is correct:....

A

area under graph represent displacement

B

gradient of the graph is constant

C

gradient of the tangent of graph represents acceleration

D

gradient of the tangent of graph represents velocity

118

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Q 120

x-rays are used to investigate

A

crystals

B

molecules

C

ions

D

electrons

119

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Q 121

The half-life of radium is about 1600 years. Of 100 g of radium existing now, 25 g will remain unchanged after

A 2400 years

B 3200 years

C 6400 years

D 4800 years

120

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 122

A circular loop of area 0.05 m^2 rotates in a uniform magnetic field of 0.2 T . If the loop rotates about its diameter which is perpendicular to the magnetic field, find flux linked with loop when its plane is normal to the field

A 0.01 wb

B 0 Wb

C $8.66 \times 10^{-3} \text{ Wb}$

D 0.86 wb

121

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Q 123

Electrical power is given by $P=$

A

 VI

B

 $I^2 R$

C

 V^2 / R

D

all

122

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Q 124

Electric current may be defined as

A

Rate of flow of charge

B

Rate of flow of momentum

C

Rate of flow of power

D

None of them

123

SKIPPED QUESTIONS 

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Q 125

From which of the following sources acetic acid was first isolated ?

A

Butter

B

Milk

C

Cheese

D

Vinegar

124

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Q 126

The unit of electronegativity is

A

Joule

B

Kilojoules

C

watt

D

no unit

125

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Q 127

Quantum numbers specify the _of electron

A

shape

B

energy

C

position

D

all of these

126

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Q 128

In Ion Electron Method of Balancing, equations are

A

Written with Oxidation numbers of Constituents

B

Split into two half reactions

C

only oxidation part is written

D

Only Reducing part is written

127

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Next Question >

Q 129

The organic compounds having close resemblance in structure as well properties are

A

Glycol and cyclohexanol

B

Formaldehyde and benzol

C

Diethyl ether and ethyl alcohol

D

methanal and acetone

128

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 130

Albumin is present in ____?

A

Milk

B

Eggs

C

Beans

D

Muscles

129

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 131

The unit for pressure used in engineering work is

A

torr

B

atm

C

pounds per square inch

D

 Nm^{-2}

130

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Q 132

Hess law states that the total enthalpy change of a reaction remains same regardless of

A

Route reaction takes for completion

B

Temperature of reactants

C

concentration of products

D

concentration of reactants

131

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Q 133

Empirical formula and molecular formula of covalent molecule is

A

different

B

same

C

variable

D

equal

132

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Q 134 Transition elements for complexes because_____?

- A They have empty d orbitals
- B They show variable oxidation states
- C Both a and b
- D They have strong bonding

133

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Q 135

a liquid crystalline state exist between two temperatures I-e melting temperature and ____ temperature

A

boiling

B

freezing

C

clearing

D

all of these

134

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Q 136

Which of the following give methanol upon hydrogenation/reduction?

A

 HCHO

B

 CH_3CHO

C

 CH_3CN

D

 $\text{CH}_3\text{CH}_2\text{CHO}$

135

SKIPPED QUESTIONS 

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Q 137

The unhybridized p orbitals of benzene are present in the form of_____?

A

Between the C-C bonds of benzene

B

Above and below the carbon bonds

C

In the form of cloud above and below the benzene ring

D

None of these

136

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Q 138

Equilibrium constant has

A

Units

B

No Units

C

Both A and B

D

A negative value

137

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Q 139

For a Voltaic Cell containing Zn and Copper electrodes the cell potential at standard conditions is

A

2 Volts

B

2.2 Volts

C

1 Volt

D

1.1 Volt

138

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Q 140

The reactant which consumes completely in a reaction is known as ____ reactant

A fractional

B initial

C limiting

D minor

139

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Q 141

Plasma 'the fourth state of matter was identified by

A

Berzelius

B

William Crooks

C

Dalton

D

Rutherford

140

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Q 142

Which of the following centers are present in the carbonyl compounds?

A

Electrophilic

B

Nucleophilic

C

Electron deficient

D

All of these

141

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Q 143

Ice is an example of

A

Polar Molecular Solid

B

Non-Polar Molecular Solid

C

Ionic Solid

D

Covalent Solid

142

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Q 144

Steam causes more severe burns than boiling water because it has

A

latent heat of fusion

B

latent heat of vaporization

C

latent heat of sublimation

D

all of these

143

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Q 145

which one is an index to metallic character

A

ionization energy

B

electron affinity

C

atomic radius

D

electronegativity

144

SKIPPED QUESTIONS 

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Q 146

The substances which reduces the activity of enzyme action are called as_____?

A

Reducers

B

Activators

C

Promoters

D

Inhibitors

145

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Q 147

Carboxylic acids are produced by the oxidation of _____?

A

Alcohol

B

Aldehyde

C

Ketone

D

All of these

146

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Q 148

The valency of an atom will be one if there is a sufficient gap b/w first and second

A

electron affinity

B

ionization energy

C

electronegativity

D

none of these

147

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 149

Which of the following compounds can show metamerism?

A

Aldehydes

B

Carboxylic acids

C

Alcohols

D

Ketones

148

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Q 150

The unit for Van der Waals constant 'b' is

A

 mol dm^{-3}

B

 dm^3

C

 $\text{m}^3 \text{mol}^{-1}$

D

 $\text{m}^3 \text{mol}$

149

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Q 151 On heating egg albumin_____?

A Solubilize

B Decompose

C Over cook

D Coagulate

150

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Q 152

In a galvanic cell Copper compartment get net negative charge due to arrival of

A

Free charge from zinc sulphate solution

B

Electron

C

Protons

D

Zinc Ions

151

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Q 153

The side of the manometer in which mercury rises faces the

A atmosphere

B liquid

C container

D gas

152

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Q 154

An atom is composed of electrons, protons, neutrons and

A

hyprone

B

neutrino

C

anti neutrino

D

all of these

153

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Q 155

What is the general trend of melting and boiling point of transition elements along period?

A

Increases from left to right

B

Decreases from left to right

C

Increases upto middle than decreases

D

Decreases upto middle than increases

154

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Q 156

Calcium carbide on reaction with water gives?

A

Methane

B

Ethane

C

propane

D

Acetylene

155

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Q 157

Which of the following are weakest intermolecular forces ?

A

Dipole dipole forces

B

Debye forces

C

London dispersion forces

D

H-bonding

156

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Q 158

How many hydrogen atoms are attached to tertiary carbon in tertiary butyl alcohol?

A 3

B 2

C 1

D 0

157

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Q 159

Which of the following has anti knocking properties?

A

Tetramethyl lead

B

Tetraethyl lead

C

Iso-octane

D

All of these

158

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Q 160

Which of the following properties belong to acetic acid?

A colourless liquid, odourless, sour taste

B bright colour bitter taste

C colourless solid, sour taste, pungent smell

D all are incorrect

159

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Q 161

Which of the following alkyl halide give S_N1 reactions?

A

1-chloropropane

B

2-chloropropane

C

n-butyl chloride

D

2-methyl,2-chloropropane

160

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Q 162

Methylated spirit is formed by the addition of

A

acetone

B

pyridine

C

1 % methanol

D

all of above

161

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Q 163

In which direction Cathode rays deflected in the presence of magnetic field?

A

Moves upward

B

Moves downward

C

Move randomly

D

Moves in straight line

162

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Q 164

Rayon is_____?

A

Acetyl chloride

B

Alkene

C

Alkyne

D

Acetic acid

163

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Q 165

The rate of reaction between two specific time intervals is

A

Instantaneous rate

B

constant rate

C

Average Rate

D

All of these

164

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Q 166

Acetic acid is used in making _____?

A

Neoprene

B

Chloroprene

C

Silk

D

Polystyrene

165

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Q 167

When the two substitution are different in arenes, they are put in which of the following order?

A

Numerically

B

Alphabetically

C

Alphanumerically

D

None

166

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Q 168

The valence electron pairs are arranged around the central atom to remain at maximum distance apart to keep repulsion

A maximum

B moderate

C zero

D minimum

167

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Q 169

By accepting an electron Hydronium Ion is converted into

A

Hydrogen gas

B

Hydrogen Atoms

C

Water

D

OH⁻ ions

168

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Q 170

 $K_2(Cu(CN)_4)$ which one is correct

A

Potassium tetra cyano cuperate

B

Coordination number is 2

C

The ligand is positively charged

D

Central atom is present in the avionic sphere

169

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Q 171

The amount of heat required to vaporize ONE mole of liquid at its ____ is called molar heat of vaporization

A melting point

B boiling point

C freezing point

D cooling point

170

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Q 172

In which of the following reaction C-O bond of alcohol breaks?

A

Reaction with SOCl_2

B

Dehydration

C

Esterification

D

All of these

171

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Q 173

If anyone of the products concentration is plotted against time instead of reactants the curve obtained will be

A Parabolic

B Rising

C Falling

D Elliptical

172

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Q 174

 H_3O^+ ions act as

A

Base

B

Catalyst

C

Buffer

D

Acid

173

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Q 175

which of the following is the heterocyclic compound

A

thiophene

B

phenol

C

aniline

D

toulene

174

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Next Question >

Q 176

Depending upon the nature of ordering ,liquid crystals are divided into types

A

more than 1

B

two

C

three

D

four

175

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Q 177

Condensation involve which of the following reactions?

A

Elimination + addition

B

Elimination + Substitution

C

Addition + substitution

D

None of these

176

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Q 178

When an electron jumps from $n = 5$ to $n = 2$ having wavenumber equal to $2.3 \times 10^6 \text{ m}^{-1}$. In which spectral series will it fall?

A Lyman

B Balmer

C visible

D infrared

177

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Q 179

The nature of amorphous solid is

A

isotropic

B

anisotropic

C

mesotrophic

D

neotropic

178

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Q 180

Potential Energy of a system comes from the

A

Van der Waal forces

B

Bonds between molecules

C

Ionic Bonds

D

All of these

179

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Next Question >

Demonstrate control of tenses and sentence structure

Q 181

I _____ a strange noise.

A

hear

B

am hearing

C

have been hearing

D

hears

180

SKIPPED QUESTIONS 

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Next Question 

Demonstrate control of tenses and sentence structure

Q 182

It seldom _____ (rain) here in February.

A

raining

B

rain

C

rains

D

rained

181

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Next Question >

Demonstrate correct use of subject-verb agreement

Q 183

They _____ a letter.

A

wrote

B

written

C

write

D

writes

182

SKIPPED QUESTIONS 

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Next Question 

Comprehend key vocabulary

Q 184

We are planning to get a big, _____ table for our dining-room

A

rough

B

empty

C

deep

D

round

183

SKIPPED QUESTIONS



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Next Question >

Demonstrate correct use of subject-verb agreement

Q 185

Some of the people waiting in line _____ getting impatient.

A

is

B

was

C

are

D

be

184

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Next Question 

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 186

we had

A

wed

B

we'd

C

we'd

D

wee'd

185

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Next Question >

Demonstrate control of tenses and sentence structure

Q 187

It _____ (rain) since last night.

A

raining

B

has been raining

C

rains

D

rained

186

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Next Question >

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement
Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 188

The officer is angry (A)/ on the clerk (b)/ for not completing the job (C)/ on time. (D)

A

The officer is angry

B

on the clerk

C

for not completing the job

D

on time.

187

SKIPPED QUESTIONS 

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Next Question 

Demonstrate correct use of subject-verb agreement

Q 189

Each and every member _____ to vote.

A

has

B

have

C

having

D

are

188

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Demonstrate control of tenses and sentence structure

Q 190

Which verb is NOT in the future tense?

A

He will go

B

he will eat

C

he will work

D

he eats

189

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Next Question >

Demonstrate control of tenses and sentence structure

Q 191

He is not only an orator but also a philosopher.

A

complex

B

simple

C

compound

D

None

190

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Demonstrate control of tenses and sentence structure

Q 192

Identify the tense used in the underlined phrase. "He bought a new house last month".

A

Present

B

Past

C

Future

D

None

191

SKIPPED QUESTIONS 

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Next Question 

Comprehend key vocabulary

Q 193

When did you _____ smoking? I am really happy to see that.

A

cut off

B

give up

C

make up

D

throw away

192

SKIPPED QUESTIONS 

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Next Question 

Comprehend key vocabulary

Q 194

The plane _____ late because one of the passenger was sick.

A

grew up

B

blew up

C

went off

D

took off

193

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Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 195

Choose the correct spelling of the word

A

vaccinate

B

vaccinnate

C

vacinate

D

vaccinat

194

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Next Question >

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 196

Choose the correct sentence.

A

My friend Sally and i are reading "The Phantom Tollbooth"

B

My friend sally and I are reading "The Phantom Tollbooth" .

C

My friend Sally and I are reading "The Phantom Tollbooth".

D

My friend Sally and I are reading the phantom tollbooth.

195

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Next Question 

Demonstrate correct use of articles and prepositions

Q 197

The students walk five kilometers to school, so they need to get up very early _____ the morning.

A on

B in

C out

D of

196

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Next Question 

Comprehend key vocabulary

Q 198

As he hated every minute of his life in the army, it is no wonder that he decided one day to his unit.

A desert

B dessert

C avoid

D suspend

197

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Demonstrate control of tenses and sentence structure

Q 199

Find the error?

A

David and Mickey danced in the street.

B

Here is the photographs I wanted to show you.

C

My grandfather owns a 1967 Mustang.

D

No mistakes.

198

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Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement
Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 200

If i had been thirsty (A)/ I would have (B)/ drank the lemonade (c)/ without waiting for you. (D)

A

If i had been thirsty

B

I would have

C

drank the lemonade

D

without waiting for you.

199

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Statements and Actions

Q 201

Statement The ratio is poverty is at alarming point in our country. I. The Government needs to take step for economic and development growth. II. The lower class area of people in our country needs to be supported as most of them lives hand to mouth.

A

Both of them follows

B

None of them follows

C

Only I follows

D

Only b follows

200

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Logical Games

Q 202

What should come next to save, secure, protect, ?

A

Guard

B

Lock

C

Conserve

D

Humble

201

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Statements and Actions

Q 203

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A

both of them follows

B

None of them follows

C

Only I follows

D

Only II follows

202

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Verbal Classification

Q 204

First step in graphing linear equation is to

A

connect two points

B

extend straight line

C

identify and plot coordinates

D

Both A and B

203

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Statements and Actions

Q 205

Statement The Management of School M has decided to give free breakfast from next academic year to all the students in its primary section through its canteen even though they will not get any government grant. Courses of Action (I) The school will have to admit many poor students who will seek admission for the next academic year. (II) The canteen facilities and utensils have to be checked and new purchases to be made to equip it properly. (III) Funds will have to be raised to support the scheme for years to come.

A Only II and III follows

B Only III and I follow

C Only I and II follow

D Only I follows

204

SKIPPED QUESTIONS 

Statements and Actions

Q 205

Statement The Management of School M has decided to give free breakfast from next academic year to all the students in its primary section through its canteen even though they will not get any government grant. Courses of Action (I) The school will have to admit many poor students who will seek admission for the next academic year. (II) The canteen facilities and utensils have to be checked and new purchases to be made to equip it properly. (III) Funds will have to be raised to support the scheme for years to come.

A Only II and III follows

B Only III and I follow

C Only I and II follow

D Only I follows

204

SKIPPED QUESTIONS 

Statement and Argument

Q 206

Statement Should religion be banned? Arguments (I) Yes. It develops fanaticism in people. (II) No, Religion binds people together.

A Only argument I is strong

B Only argument II is strong

C Either I or II is strong

D Neither I nor II is strong

205

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Dependent Causes/ Independent Causes/

Q 207

Statement: Police resorted to lathi-charge to disperse the unlawful gathering of large number of people.
The citizens' forum called a general strike in protest against the police atrocities.

- A Statement I is the cause and statement II is its effect.
- B Statement II is the cause and statement I is its effect
- C Both the statements I and II are independent causes
- D Both the statements I and II are effects of independent causes

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Verbal Classification

Q 208

FRAME: PICTURE

A

Criminal: Crime

B

Nail: Hammer

C

River: Forest

D

Binding: Book

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Logical Games

Q 209

If '-' means '+', '+' means '-', '*' means '÷' and '÷' means '*' then which of the following will be the correct equation?

A $30 + 5 + 14 - 10 * 15 = 122$

B $10 + 5 - 14 \div 10 * 15 = 158$

C $30 - 5 + 14 \div 10 * 15 = 162$

D $30 * 5 - 4 \div 10 + 15 = 31$

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Complete the series

Q 210

Quote and Poet have _____ number of same letters

A

5

B

4

C

3

D

2

209

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Q1

A 220 V main supply is connected to a resistance of 100 k ohms. The effective current is

A

2.2 mA

B

$2.2/\sqrt{2}$ mA

C

$2.2 \times \sqrt{2}$ mA

D

none of the above

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Q2

Electrical power is given by $P=$

A

 VI

B

 $I^2 R$

C

 V^2 / R

D

all

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Q3

The valency of an atom will be one if there is a sufficient gap b/w first and second

A

electron affinity

B

ionization energy

C

electronegativity

D

none of these

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Q4

In mammalian male, the reproductive and excretory system share the same:

A

vas deferens

B

ureter

C

urinary bladder

D

Urethra

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Q5

When was the bacteriophage phenomena rediscovered by D'Herelle?

A

1918

B

1917

C

1920

D

1990

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Q6

The canal system in sponges develops due to which of the following?

A

Porous walls

B

Gastrovascular system

C

Reproduction

D

Folding of inner walls

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Q7

Statement Should religion be banned? Arguments (I) Yes. It develops fanaticism in people. (II) No, Religion binds people together.

A

Only argument I is strong

B

Only argument II is strong

C

Either I or II is strong

D

Neither I nor II is strong

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Q8

If the genetic diversity is low the chance of extinction is?

A

decreased

B

increased

C

remains same

D

becomes zero

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Q9

Casparian strips are found in:

A

Epidermis

B

Endodermis

C

Cortex

D

Vascular bundle

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Q10

In a periodic wave, the distance between two consecutive crests is known as:

A

wave length

B

amplitude

C

displacement

D

none of these

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Q11

Under what conditions of temperature and pressure does a real gas approximate to an ideal gas?

A

pressure = low temperature = low

B

pressure = low temperature = high

C

pressure = high temperature = low

D

pressure = high temperature = high

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Q12

What type of protein is Fibrin?

A

Functional

B

Structural

C

enzymatic

D

all of these

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Q13

Shape of the maturing phase of tge golgi apparatus is?

A

biconcave

B

convex

C

spherical

D

concave

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Q14

One of the functions of the Neuroglial cells is to protect and support which of the following?

A

Nephrons

B

Myoid cells

C

Neurons

D

none of these

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Q15

The chief cells at the base of the gastric glands secrete the zymogen which is called?

A

trypsinogen

B

pepsin

C

trypsin

D

pepsinogen

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Q16 Developing seeds are rich source of which of the following?

A auxins

B gibberellins

C cytokinins

D all of these

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Q17

What protein, present in sarcomeres, is responsible for the passive elasticity of muscle?

A

collagen

B

myosin

C

titin

D

actin and myosin

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Q18

Lymph nodes may be located in the human body in the tissues of the:

A

stomach

B

thyroid gland

C

brain

D

groin and neck

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Q19

Active form of an enzyme:

A

Coenzyme

B

Apoenzyme

C

Holoenzyme

D

Proenzyme

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Q20

Sycon is an example of:

A

Platyhelminthes

B

Annelida

C

Protozoa

D

Porifera

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Q21

Air contains what percentage of carbon dioxide?

A

0.02-0.03

B

0.03-0.04

C

0.04-0.05

D

0.05-0.06

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Q22

A condition with abnormal amount of fats is called:

A

anorexia

B

botulism

C

piles

D

obesity

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Q23

The brain is protected by:

A

sacrum

B

Cranium

C

humerus

D

scapula

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Q24 Which of the following molecules is reduced?

A NAD^+

B FAD

C O_2

D NADPH

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Q25

The ordered list of loci known for a particular genome is called?

A

gene map

B

loci

C

alleles

D

chromosomes

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Q26

The bond formed when two or more atoms complete their electron shells by sharing electrons is called?

A

Ionic bond

B

Hydrogen bond

C

covalent bond

D

Both a and b

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Q27

Which statement is true about gastropods?

A

Body is bilaterally symmetrical.

B

Both aquatic and land species breathe through lungs.

C

Triploblastic and acoelomates.

D

All of the above.

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Q28

The reaction will proceed faster if the activation energy is?

A

high

B

low

C

remains same

D

none of these

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Q29

nervous system of nematodes consists of which of the following?

A

ventral nerve cord

B

dorsal nerve cord

C

lateral nerve cord

D

all of these

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Q30

The most common cause of cancer-related deaths is

A

Prostate cancer

B

Kidney cancer

C

Lung cancer

D

Skin cancer

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Q31 Which of the following carbohydrate is polymerized through 1,4 glycosidic linkages?

A amylose

B sucrose

C maltose

D lactose

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Q32

Which statement about enzyme is incorrect?

A

Some of them consist solely of protein with no non protein part.

B

They catalyze a chemical reaction without being utilized.

C

They without their cofactor are called apoenzyme.

D

All enzymes are fibrous Proteins

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Q33

Trachea is also termed as:

A

voice box

B

epiglottis

C

bronchi

D

windpipe

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Q34 What is not the function of cerebrospinal fluid?

A It cushions the brain

B It protects the central nervous system

C It increases pressure at the base of the brain.

D It fills the subarachnoid space

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Q35

The internal lining of the uterus wall is called:

A

Endometrium

B

Perimetrium

C

Corpus luteum

D

None of these

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Q36

Rapid growth at exponential rate occurs in which phase of bacterial growth?

A

lag

B

log

C

stationary

D

decline

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Q37

The process that secretes insulin from the cell is called?

A

endocytosis

B

pinocytosis

C

phagocytosis

D

exocytosis

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Q38

Neo-Darwinism has integrated discoveries and ideas from which of the following fields of study?

A

genetics

B

paleontology

C

taxonomy

D

all of these

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Q39

A disease caused by the absence of a lysosomal enzyme responsible for lipid catabolism_____.

A

Tay-Sach's disease

B

Phenylketonuria

C

Klinefelter's syndrome

D

Down's syndrome

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Q40

What cycle begins when newly formed phages enter the bacteria?

A

lysogenic cycle

B

lytic cycle

C

both

D

none

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Q41

Who was the first to propose an objective definition of instincts in terms of animal behaviour?

A

wallace

B

lamark

C

lyell

D

darwin

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Q42

Rhythmic opening and closing of the stroma is controlled by?

A

temperature

B

oxygen

C

transpiration

D

internal clock in guard cells

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Q43

Out of 31 pairs of spinal nerves, how many pairs of cervical nerves are there?

A

8

B

10

C

12

D

15

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Q44

The best definition of natural selection is?

A

survival of the fittest

B

the most fit individuals adapt to their environment better than less fit individuals

C

those who eat better, are healthier, and live longer are the most fit within a population

D

preservation of traits that lead to increased survival and reproduction

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Q45

The rate of an enzyme catalyzed reaction

A

Can be reduced by inhibitors

B

Is constant under condition

C

Cannot be measured

D

Decreases as substrate concentration increases

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Q46

The number of RBCs at high altitude will:

A

Increase in size

B

Increase in number

C

Decrease in size

D

Decrease in number

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Q47

The coulomb constant is defined as:...

A

$$1 / (4\pi\epsilon)$$

B

$$4 / (\pi\epsilon)$$

C

$$4\pi\epsilon$$

D

$$\pi / (4\epsilon)$$

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Q48

What gives the definite shape to a virion?

A

Envelope

B

Capsid

C

Capsomeres

D

prions

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Q49

In nostrils, the substance which moistens and keep the incoming air warm is called

A

Bronchi

B

Mucous

C

pharynx duct

D

Glottis

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Q50

The soluble part of the cytoplasm is known as?

A

cytosol

B

polysomes

C

cisternae

D

chitin

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Q51

External genitalia of human male consist of a pair of testes which lie outside the body in the sac like?

A

bag

B

scrotum

C

pouch

D

all of these

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Q52

Why cannot viruses replicate on their own?

A

too small

B

have no cell wall

C

lack metabolic machinery

D

all

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Q53

Which characteristic is not of identical twins?

A

Produced by separation of two blastomeres

B

Produced asexually

C

Produced when embryo is at two cell stage

D

Have different genetic makeup

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Q54

Who developed a theory of natural selection essentially identical to Darwin's?

A

Hardy-Weinberg

B

Malthus

C

Lamarck

D

Alfred Wallace

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Q55

The phage components begin to assemble into mature phages only after the synthesis of?

A

structural protein

B

nucleic acid

C

both a and b

D

amino acids

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Q56

The fibrous tissue that connects the tooth and socket is called the:

A

radio-ulnar joints

B

tibiofibular joints

C

Gomphosis

D

periodontal ligament

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Q57

In the male reproductive tract, sperm cells follow a specific path. Which of the following do sperm cells enter after traveling through the epididymis?

A

Urethra

B

Seminiferous tubules

C

Ejaculatory duct

D

Vas deferens

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Q58

Which of the following acts as the thermoregulator region of the brain?

A

cerebellum

B

cerebrum

C

hypothalamus

D

thalamus

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Q59

Which group does not contain polyp?

A

Anthozoa

B

Hydrozoa

C

Scyphozoa

D

Calcareo

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Q60

Absciscic acid promotes flowering in short day plants and inhibits in long day plants, which of the following is antagonistic to absciscic acid in terms of flowering?

A

gibberellins

B

cytokinins

C

auxins

D

ethene

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Q61

Photosynthesis is process in which _____ compounds of carbon and hydrogen are reduced to carbohydrate like (glucose) using light energy.

A

Organic

B

Energy poor

C

energy rich

D

Reduced

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Q62

The structures of the front flipper of a whale and the forearm of a wolf have similar bone structure and derive from a common ancestor. This is an example of which of the following?

A

convergent evolution

B

analogous structures

C

homologous structures

D

bottleneck affect

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Q63

A human cell from the ovary has 22 chromosomes and an X chromosome. It is which of the following?

A

egg

B

sperm

C

somatic cell

D

gamete

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Q64

The oldest mineral discovered so far is which of the following, which dates back to 4.4 billion years.

A

iron

B

zircon

C

diamond

D

cadmium

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Q65

In prokaryotic cells, ribosomes are?

A

50S + 40S

B

60S + 40S

C

80 S

D

70 S

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Q66

A chloroplast has 3 main components. They are the envelope, stroma and?

A

thylakoid

B

F1 particles

C

granum

D

centrosome

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Q67

Where in a leaf mesophyll cell would you find DNA molecules?

A

Nucleus only

B

Nucleus & mitochondria only

C

Nucleus, mitochondria & chloroplasts only

D

Nucleus, mitochondria, chloroplasts & plasmids only

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Q68

Fatty acids containing 18 C atoms and a single double bond are?

A

Saturated

B

Unsaturated

C

Oleic acid

D

Palmitic acid

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Q69

For attachment, rabies virus binds to a

A

complement receptor

B

integrin ICAM-1

C

acetylcholin

D

epidermal growth factor

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Q70

A researcher has designed a new type of inhibitor that binds at the active site of an enzyme. What type of inhibition does this molecule display?

A

Uncompetitive inhibition

B

Noncompetitive inhibition

C

Competitive inhibition

D

all of these

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Q71 Which of the following is incorrect for ascent of sap?

A water potential

B cohesion tension

C root pressure

D imbibition

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Q72

Centrifuge is used to purify

A

U

B

H

C

O

D

N

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Q73

A wire of uniform area of cross-section A and length L is cut into two equal parts, the resistivity of each part is

A

Doubled

B

Half

C

Remains the same

D

increase three times

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Q74

Consider a negative point charge is moving along a straight-line path directly toward a stationary positive point charge. Which aspect(s) of the electric force on the negative point charge will remain constant as it moves?

A

direction

B

magnitude

C

both direction and magnitude

D

neither direction and magnitude

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Q75

Magnetic flux is _____ product

A

scalar

B

vector

C

simple

D

none of these

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Q76

The speed of sound in air is approximately:

A

1500 m/s

B

5000 m/s

C

330 m/s

D

50 m/s

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Q77

Momentum of a photon is

A

0

B

 α

C

 hf/c

D

 mv

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Q78 Which of the terms is related with thermodynamics

A System

B Surrounding

C Boundary

D All of these

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Q79

What will be the product of beta decay of C-14?

A

C-14

B

N-14

C

O-14

D

Be-14

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Q80

Speed is a

A

tensor

B

vector

C

scalar

D

None of these

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Q81

When a force is parallel to the the direction of motion of body, the work done is

A

Zero

B

minimum

C

infinity

D

maximum

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Q82

If magnetic field vector is $B = (i + 5j + 2k)$ and area vector is $(6i - 2j + 2k)$ then flux related to this is

A

10 Wb

B

15 Wb

C

20 Wb

D

0 Wb

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Q83

If the instantaneous current in a circuit is given by $I = A \sin(\omega t)$ ampere, the rms value of the current is:

A

2A

B

 $A/\sqrt{2}$

C

 $2\sqrt{2}A$

D

zero

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Q84

When brakes of a car are applied, angular velocity of a flywheel reduces from 900 cycles/min to 720 cycle/min in 6sec. Angular retardation is

A

 $\pi \text{ rads}^{-2}$

B

 $9\pi \text{ rad/s}^2$

C

 $8\pi \text{ rad/s}^2$

D

none of these

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Q85

A 500 W electric heater is used to heat 1 kg of water without energy losses. The specific heat capacity of water is 4.2 kJ kg K . What is the time taken to heat the water from 25 °C to 75 °C?

A

7 seconds

B

42 seconds

C

7 minutes

D

420 minutes

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Q86

An uncharged conductor has

A

electrons

B

protons

C

holes

D

all of these

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Q87

Why x-rays are used in crystallography

A

to prevent interference

B

to prevent diffraction

C

to perform interference

D

to perform diffraction

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Q88

The proton and antiproton collision will result

A

scattering

B

repulsion

C

attraction

D

annihilation

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Q89

Time period of the wave is $\frac{1}{4}$ sec. How long does it take to pass 20 complete waves from a point?

A

5 sec

B

80 sec

C

 $\frac{1}{80}$ sec

D

 $\frac{1}{5}$ sec

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Q90

A charged particle enters in a strong magnetic field, its K.E

A

decreases

B

increases then decreases

C

becomes zero

D

remains constant

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Q91

Which of the following rectifier uses wheatstone bridge to rectify signal

A

half wave

B

full wave

C

bridge

D

All of the above

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Q92

People sitting in a moving bus experience a jerk when the bus stops. This is due to ____

A

inertia of motion

B

inertia of rest

C

inertia of turning

D

inertia of acceleration

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Q93

If I , R and t are the current, resistance and time respectively, then according to Joule's law heat produced will be proportional to

A

 $I^2 R t$

B

 $I^2 R f$

C

 $I^2 R^2 t$

D

 $I^2 R^2 t^2$

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Q94

Displacement and distance moved by an object in a straight path is

A

zero

B

same

C

different

D

not enough info

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Q95

Inertia refers to tendency of object to

A

be at rest

B

be at constant motion

C

remain in the same state as previous

D

be at accelerating motion

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Q96

The value of K depends upon

A

charges

B

system of units and medium

C

the distance between charges

D

Nature of medium

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Q97

The linear momentum of a 3 MeV photon is :

A

 0.01 eV s m^{-1}

B

 0.01 eV s m^{-1}

C

 0.03 eV s m^{-1}

D

 0.04 eV s m^{-1}

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Q98

When brakes are applied to moving vehicle, the work done by the braking system is

A

positive

B

negative

C

zero

D

none of these

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Q99

Wave speed per frequency is equivalent to

A

beats

B

Time period

C

wavelength

D

None of them

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Q100

A line normal to the wavefront, showing the direction of propagation of light is called:

A

tangent

B

radius

C

wavelength

D

ray of light

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Q101

A half wave rectifier is equivalent to

A

Clamper

B

Clipper

C

Clamper circuit with negative bias

D

Clamper circuit with positive bias

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Q102

Angular displacement is zero when

A

angle =0

B

 $v=0$

C

 $r=0$

D

both b and c

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Q103

Core of transformer is made up of

A

copper

B

Aluminum

C

iron

D

steel

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Q104

A liquid has mass m and specific heat capacity c . The rate of change in temperature of liquid is R . What is the rate at which heat is transferred from the liquid.

A

 Rmc

B

 $R \div mc$

C

 $mc \div R$

D

 $Rm \div c$

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Q105

The clouds are formed when water ____ heat

A

absorb

B

release

C

first absorb than release

D

first release than absorb

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Q106

The atomic ratio between U-238 and U-234 in a sample is 1.8×10^4 . The half life of U-238 is 2.5×10^5 years. Find the half life of U-234.

A

 2.5×10^9 years

B

 2.5×10^8 years

C

 4.5×10^9 years

D

none of these

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Q107

The charge and mass of photon is

A

0,0

B

1+,0

C

1-,0

D

1,1

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Q108

A disc of radius 2 m and mass 100 kg roll on a horizontal surface, its center of mass has speed of 2 cm/s, how much work is needed to stop it

A

1 J

B

3 J

C

30 J

D

2 J

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Q109

Initial pressure and volume are P and V respectively. First it expanded isothermally to $4V$ then compressed adiabatically to Volume V , the final pressure is

A

 $2P$

B

 $1P$

C

 $3P$

D

 $4P$

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Q110

In half wave rectification, the output DC voltage is obtained across the load for

A

the positive half cycle of input AC

B

the negative half cycle of input AC

C

the positive and negative half cycles of input AC

D

Either positive or negative half cycle of input AC

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Q111

A stationary wave is formed in a pipe which is open at both ends. If length of pipe is L , then what is the maximum possible wavelength of the wave.

A

 $2L$

B

 $\frac{1}{2}L$

C

 L

D

 $3L$

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Q112

When white light is passed through cool gases the spectra we observed is called

A

Line spectra

B

continuous spectra

C

absorption line spectra

D

emission line spectra

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Q113

100 W heater is switched on for 5 minutes to melt ice. What is the mass of ice that melts at 0°C. Specific latent heat of fusion of ice is 334 J/g.

A

90 g

B

90 kg

C

1.5 g

D

1.5 kg

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Q114

A sound wave has a wavelength of 0.20 m. What is the phase difference between two points along the wave which are 0.65 m apart?

A

0 deg

B

45 deg

C

90 deg

D

180 deg

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Q115

A particle carrying a charge $3e$, accelerates through a potential difference of $2V$. The energy acquired by it is:...

A

 $1.6 \times 10^{-19} \text{ J}$

B

 $9.6 \times 10^{-19} \text{ J}$

C

 $9.6 \times 10^{-18} \text{ J}$

D

 $1.6 \times 10^{-18} \text{ J}$

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Q116

If displacement-time graph is a curve, which of the following is correct:....

A

area under graph represent displacement

B

gradient of the graph is constant

C

gradient of the tangent of graph represents acceleration

D

gradient of the tangent of graph represents velocity

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Q117

x-rays are used to investigate

A

crystals

B

molecules

C

ions

D

electrons

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Q118

The half-life of radium is about 1600 years. Of 100 g of radium existing now, 25 g will remain unchanged after

A

2400 years

B

3200 years

C

6400 years

D

4800 years

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Q119

A circular loop of area 0.05 m^2 rotates in a uniform magnetic field of 0.2 T . If the loop rotates about its diameter which is perpendicular to the magnetic field, find flux linked with loop when its plane is normal to the field

A

0.01 wb

B

0 Wb

C

 $8.66 \times 10^{-3} \text{ Wb}$

D

0.86 wb

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Q120

Electric current may be defined as

A

Rate of flow of charge

B

Rate of flow of momentum

C

Rate of flow of power

D

None of them

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Q121

From which of the following sources acetic acid was first isolated ?

A

Butter

B

Milk

C

Cheese

D

Vinegar

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Q122

The unit of electronegativity is

A

Joule

B

Kilojoules

C

watt

D

no unit

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Q123

Quantum numbers specify the _of electron

A

shape

B

energy

C

position

D

all of these

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Q124

In Ion Electron Method of Balancing, equations are

A

Written with Oxidation numbers of Constituents

B

Split into two half reactions

C

only oxidation part is written

D

Only Reducing part is written

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Q125

Aschelminthes is also known as which of the following?

A

Protozoans

B

Eumetazoa

C

Protocist ancestors

D

Nematodes

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Q126

When a spring is stretched, work done by stretching force is

A

positive

B

negative

C

zero

D

none of these

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Q127

The organic compounds having close resemblance in structure as well properties are

A

Glycol and cyclohexanol

B

Formaldehyde and benzol

C

Diethyl ether and ethyl alcohol

D

methanal and acetone

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Q128

Albumin is present in ____?

A

Milk

B

Eggs

C

Beans

D

Muscles

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Q129

The unit for pressure used in engineering work is

A

torr

B

atm

C

pounds per square inch

D

 Nm^{-2}

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Q130

Hess law states that the total enthalpy change of a reaction remains same regardless of

A

Route reaction takes for completion

B

Temperature of reactants

C

concentration of products

D

concentration of reactants

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Q131

Empirical formula and molecular formula of covalent molecule is

A

different

B

same

C

variable

D

equal

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Q132

Transition elements form complexes because_____?

A

They have empty d orbitals

B

They show variable oxidation states

C

Both a and b

D

They have strong bonding

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Q133

a liquid crystalline state exist between two temperatures I-e melting temperature and ____ temperature

A

boiling

B

freezing

C

clearing

D

all of these

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Q134

Which of the following give methanol upon hydrogenation/reduction?

A

 HCHO

B

 CH_3CHO

C

 CH_3CN

D

 $\text{CH}_3\text{CH}_2\text{CHO}$

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Q135

The unhybridized p orbitals of benzene are present in the form of _____?

A

Between the C-C bonds of benzene

B

Above and below the carbon bonds

C

In the form of cloud above and below the benzene ring

D

None of these

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Q136

Equilibrium constant has

A

Units

B

No Units

C

Both A and B

D

A negative value

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Q137

For a Voltaic Cell containing Zn and Copper electrodes the cell potential at standard conditions is

A

2 Volts

B

2.2 Volts

C

1 Volt

D

1.1 Volt

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Q138

The reactant which consumes completely in a reaction is known as ____ reactant

A

fractional

B

initial

C

limiting

D

minor

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Q139

Plasma 'the fourth state of matter was identified by

A

Berzelius

B

William Crooks

C

Dalton

D

Rutherford

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Q140

Which of the following centers are present in the carbonyl compounds?

A

Electrophilic

B

Nucleophilic

C

Electron deficient

D

All of these

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Q141

Ice is an example of

A

Polar Molecular Solid

B

Non-Polar Molecular Solid

C

Ionic Solid

D

Covalent Solid

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Q143

which one is an index to metallic character

A

ionization energy

B

electron affinity

C

atomic radius

D

electronegativity

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Q144

The substances which reduces the activity of enzyme action are called as_____?

A

Reducers

B

Activators

C

Promoters

D

Inhibitors

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Q145

Carboxylic acids are produced by the oxidation of_____?

A

Alcohol

B

Aldehyde

C

Ketone

D

All of these

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Q146

Which of the following compounds can show metamerism?

A

Aldehydes

B

Carboxylic acids

C

Alcohols

D

Ketones

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Q147

The unit for Van der Waals constant 'b' is

A

 mol dm^{-3}

B

 dm^3

C

 $\text{m}^3 \text{mol}^{-1}$

D

 $\text{m}^3 \text{mol}$

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Q148

On heating egg albumin_____?

A

Solubilize

B

Decompose

C

Over cook

D

Coagulate

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Q149

In a galvanic cell Copper compartment get net negative charge due to arrival of

A

Free charge from zinc sulphate solution

B

Electron

C

Protons

D

Zinc Ions

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Q150

The side of the manometer in which mercury rises faces the

A

atmosphere

B

liquid

C

container

D

gas

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Q151

An atom is composed of electrons, protons, neutrons and

A

hyprone

B

neutrino

C

anti neutrino

D

all of these

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Q152

What is the general trend of melting and boiling point of transition elements along period?

A

Increases from left to right

B

Decreases from left to right

C

Increases upto middle than decreases

D

Decreases upto middle than increases

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Q153

Which of the following are weakest intermolecular forces ?

A

Dipole dipole forces

B

Debye forces

C

London dispersion forces

D

H-bonding

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Q154

How many hydrogen atoms are attached to tertiary carbon in tertiary butyl alcohol?

A

3

B

2

C

1

D

0

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Q155

Which of the following has anti knocking properties?

A

Tetramethyl lead

B

Tetraethyl lead

C

Iso-octane

D

All of these

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Q156

Which of the following properties belong to acetic acid?

A

colourless liquid, odourless, sour taste

B

bright colour bitter taste

C

colourless solid, sour taste, pungent smell

D

all are incorrect

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Q157

Which of the following alkyl halide give S_N1 reactions?

A

1-chloropropane

B

2-chloropropane

C

n-butyl chloride

D

2-methyl,2-chloropropane

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Q158

Methylated spirit is formed by the addition of

A

acetone

B

pyridine

C

1 % methanol

D

all of above

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Q159

In which direction Cathode rays deflected in the presence of magnetic field?

A

Moves upward

B

Moves downward

C

Move randomly

D

Moves in straight line

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Q160

The rate of reaction between two specific time intervals is

A

Instantaneous rate

B

constant rate

C

Average Rate

D

All of these

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Q161

Acetic acid is used in making _____?

A

Neoprene

B

Chloroprene

C

Silk

D

Polystyrene

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Q162

When the two substitution are different in arenes, they are put in which of the following order?

A

Numerically

B

Alphabetically

C

Alphanumerically

D

None

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Q163

The valence electron pairs are arranged around the central atom to remain at maximum distance apart to keep repulsion

A

maximum

B

moderate

C

zero

D

minimum

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Q164

By accepting an electron Hydronium Ion is converted into

A

Hydrogen gas

B

Hydrogen Atoms

C

Water

D

OH- ions

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Q165

 $K_2(Cu(CN)_4)$ which one is correct

A

Potassium tetra cyano recuperate

B

Coordination number is 2

C

The ligand is positively charged

D

Central atom is present in the avionic sphere

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Q166

The amount of heat required to vaporize ONE mole of liquid at its ____ is called molar heat of vaporization

A

melting point

B

boiling point

C

freezing point

D

cooling point

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Q167

In which of the following reaction C-O bond of alcohol breaks?

A

Reaction with SOCl_2

B

Dehydration

C

Esterification

D

All of these

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Q168

 H_3O^+ ions act as

A

Base

B

Catalyst

C

Buffer

D

Acid

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Q169

which of the following is the heterocyclic compound

A

thiophene

B

phenol

C

aniline

D

toutline

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Q170

Depending upon the nature of ordering ,liquid crystals are divided into types

A

more than 1

B

two

C

three

D

four

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Q171

Condensation involve which of the following reactions?

A

Elimination + addition

B

Elimination + Substitution

C

Addition + substitution

D

None of these

< Previous Question

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Q172

When an electron jumps from $n = 5$ to $n = 2$ having wavenumber equal to $2.3 \times 10^6 \text{ m}^{-1}$. In which spectral series will it fall?

A

Layman

B

Balmer

C

visible

D

infrared

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Q173

The nature of amorphous solid is

A

isotropic

B

anisotropic

C

mesotrophic

D

neotropic

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Q174

Potential Energy of a system comes from the

A

Van der Waal forces

B

Bonds between molecules

C

Ionic Bonds

D

All of these

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Q175

It seldom _____ (rain) here in February.

A

raining

B

rain

C

rains

D

rained

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Q176

They _____ a letter.

A

wrote

B

written

C

write

D

writes

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Q177

We are planning to get a big, _____ table for our dining-room

A

rough

B

empty

C

deep

D

round

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Q178

Some of the people waiting in line _____ getting impatient.

A

is

B

was

C

are

D

be

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Q179

we had

A

wed

B

we'ed

C

we'd

D

wee'd

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Q180

It _____ (rain) since last night.

A

raining

B

has been raining

C

rains

D

rained

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Q181

The officer is angry (A)/ on the clerk (b)/ for not completing the job (C)/ on time. (D)

A

The officer is angry

B

on the clerk

C

for not completing the job

D

on time.

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Q182

Which verb is NOT in the future tense?

A

He will go

B

he will eat

C

he will work

D

he eats

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Q182

Which verb is NOT in the future tense?

A

He will go

B

he will eat

C

he will work

D

he eats

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Q183

He is not only an orator but also a philosopher.

A

complex

B

simple

C

compound

D

None

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Q184

Identify the tense used in the underlined phrase. "He bought a new house last month".

A

Present

B

Past

C

Future

D

None

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Q185

The plane _____ late because one of the passenger was sick.

A

grew up

B

blew up

C

went off

D

took off

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Q186

Choose the correct spelling of the word

A

vaccinate

B

vaccinnate

C

vacinate

D

vaccinat

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Q187

Choose the correct sentence.

A

My friend Sally and i are reading "The Phantom Tollbooth"

B

My friend sally and I are reading "The Phantom Tollbooth" .

C

My friend Sally and I are reading "The Phantom Tollbooth".

D

My friend Sally and I are reading the phantom tollbooth.

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Q188

The students walk five kilometers to school, so they need to get up very early _____ the morning.

A

on

B

in

C

out

D

of

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Q189

As he hated every minute of his life in the army, it is no wonder that he decided one day to his unit.

A

desert

B

dessert

C

avoid

D

suspend

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Q190

Find the error?

A

David and Mickey danced in the street.

B

Here is the photographs I wanted to show you.

C

My grandfather owns a 1967 Mustang.

D

No mistakes.

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Q191

If I had been thirsty (A)/ I would have (B)/ drank the lemonade (c)/ without waiting for you. (D)

A

If i had been thirsty

B

I would have

C

drank the lemonade

D

without waiting for you.

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Q192

Statement The ratio is poverty is at alarming point in our country. I. The Government needs to take step for economic and development growth. II. The lower class area of people in our country needs to be supported as most of them lives hand to mouth.

A

Both of them follows

B

None of them follows

C

Only I follows

D

Only b follows

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Q193

What should come next to save, secure, protect, ?

A

Guard

B

Lock

C

Conserve

D

Humble

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Q194

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A

both of them follows

B

None of them follows

C

Only I follows

D

Only II follows

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Q194

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A

both of them follows

B

None of them follows

C

Only I follows

D

Only II follows

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Q195

First step in graphing linear equation is to

A

connect two points

B

extend straight line

C

identify and plot coordinates

D

Both A and B

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Q196

Statement The Management of School M has decided to give free breakfast from next academic year to all the students in its primary section through its canteen even though they will not get any government grant. Courses of Action (I) The school will have to admit many poor students who will seek admission for the next academic year. (II) The canteen facilities and utensils have to be checked and new purchases to be made to equip it properly. (III) Funds will have to be raised to support the scheme for years to come.

A

Only II and III follows

B

Only III and I follow

C

Only I and II follow

D

Only I follows

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Q197

Statement: Police resorted to lathi-charge to disperse the unlawful gathering of large number of people. The citizens' forum called a general strike in protest against the police atrocities.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect

C

Both the statements I and II are independent causes

D

Both the statements I and II are effects of independent causes

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Q198

FRAME: PICTURE

A

Criminal: Crime

B

Nail: Hammer

C

River: Forest

D

Binding: Book

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Q199

If '-' means '+', '+' means '-', '*' means '÷' and '÷' means '*' then which of the following will be the correct equation?

A

$$30 + 5 + 14 - 10 * 15 = 122$$

B

$$10 + 5 - 14 \div 10 * 15 = 158$$

C

$$30 - 5 + 14 \div 10 * 15 = 162$$

D

$$30 * 5 - 4 \div 10 + 15 = 31$$

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Q200

Quote and Poet have _____ number of same letters

A

5

B

4

C

3

D

2

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Q201

When were bacteriophages discovered by Twort?

A

1915

B

1920

C

1910

D

1820

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Q202

The gram positive bacteria appear which colour under gram staining?

A

purple

B

red

C

pink

D

blue

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Q203

Shape of the maturing phase of tge golgi apparatus is?

A

biconcave

B

convex

C

spherical

D

concave

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Q204

If anyone of the products concentration is plotted against time instead of reactants the curve obtained will be

A

Parabolic

B

Rising

C

Falling

D

Elliptical

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Q205

Each and every member _____ to vote.

A

has

B

have

C

having

D

are

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Q206

When did you _____ smoking? I am really happy to see that.

A

cut off

B

give up

C

make up

D

throw away

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Q207

The value of permittivity of material, other than air or space is:...

A

greater than unity

B

less than unity

C

equal to unity

D

zero

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Q208

Calcium carbide on reaction with water gives?

A

Methane

B

Ethane

C

propane

D

Acetylene

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Q209

Rayon is_____?

A

Acetyl chloride

B

Alkene

C

Alkyne

D

Acetic acid

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Q210

I _____ a strange noise.

A

hear

B

am hearing

C

have been hearing

D

hears

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